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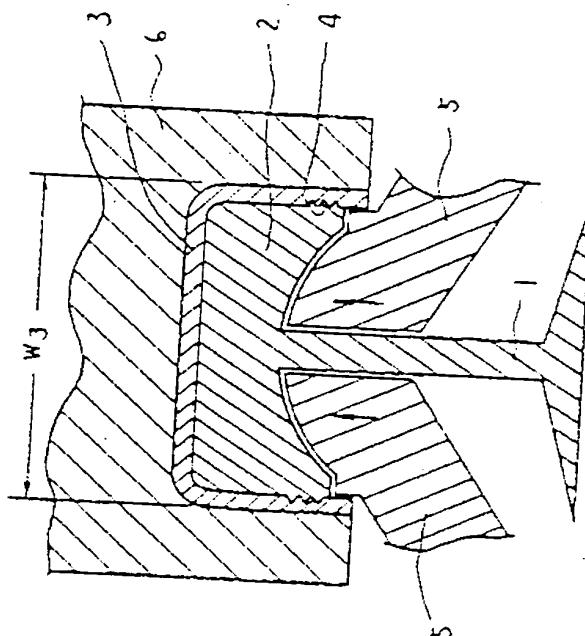
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APPLICANT : HITACHI CABLE LTD;

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TITLE : COMPOSITE RIGID POWER FEED
LINE FOR ELECTRIC CAR AND
MANUFACTURE THEREOF



ABSTRACT : PURPOSE: To make close the contact between metals of different kinds so that the contact resistance therebetween in a power feed line for electric cars and to enhance the wear-resistant ability of the power feed line to aim at sustaining an electric resistance by press-fitting the head section of a highly conductive metal of extrusion molding in a wear-resistant metal slide member of invert U-like cross-sectioned shape.

CONSTITUTION: A wear-resistant metal slide member 3 made of stainless steel, etc., in an inverse U-shape which is identical with the cross-sectioned shape of a carrier head section 2 made of a highly conductive metal such as, for example, aluminum, etc., which is obtained by extrusion molding is formed therein with indentations 4, simultaneously with moulding of the slide section 3. Then both are assembled together, and a roll 5 is laid on the lower surface of the carrier head 2. Further, a die 6 having a width slightly larger than that of the slide member 3 is fitted onto the latter to compress the carrier head section 2 in order to prevent the same from overflowing from the opening part of the slide member 3 until the part having an amount which is obtained by compressing the carrier head section 2 for plastic deformation is filled in the gap ($W_2 - W_1$) among the indentations 4, the slide member 3 and the head section 2, and the head section 2 has its width W_3 larger than the width W_2 of the slide member 3 after compression. With this arrangement the fixing force may be made large so that it is possible to prevent rain water from entering in the joint section between metals of different kinds.

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